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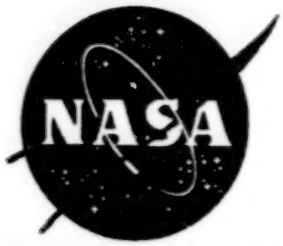

National Aeronautics
and Space Adminstration

January 24, 1995

NRA 95-OSS-03

Research Announcement

Shoemaker-Levy 9/Jupiter Data Analysis and Interpretation Program

Proposals Due: April 24, 1995

COMPLETED

OMB Approval No. 2700-0042

Shoemaker-Levy 9/Jupiter Data Analysis and Interpretation Program

NASA Research Announcement (NRA)
Soliciting Proposals for Basic Research
for the Period Ending
April 24, 1995

NRA 95-OSS-03
Issued: January 24, 1995

Office of Space Science
National Aeronautics and Space Administration
Washington, DC 20546-0001

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Shoemaker-Levy 9/Jupiter Data Analysis and Interpretation Program

This NASA Research Announcement (NRA) solicits basic research proposals to conduct scientific investigations utilizing the data obtained before, during, and after (long term effects) the collision of Comet Shoemaker-Levy 9 with the atmosphere of Jupiter. The objective of this program is to enhance the scientific return from these **unique data sets** covering all spectral regions obtained during this momentous event. To accomplish this objective, scientists possessing data sets and those scientists who can set up collaborations to use existing data sets are strongly encouraged to submit proposals. Proposals may focus on the analysis and interpretation of data obtained of the event (including data from more than one observatory or in more than one spectral region); they may focus on modeling, model verification, or other theoretical studies; or they may combine data analysis and modeling/theory.

Excellent scientific results are likely to ensue from the synergistic intercomparison of datasets taken at different observing sites and of datasets taken in different spectral regions. The principal areas where we hope to advance our scientific understanding are: structure and chemical composition of the impacting bodies; chemical, physical, and thermal structure of the Jovian atmosphere and interior; interaction of the Jovian magnetosphere with cometary dust and grains; and atmospheric entry science.

NASA, in coordination with the National Science Foundation (NSF), will accept proposals to participate in this Data Analysis and Modeling/Theory Program. Proposers are requested to prepare a single proposal containing: (1) both the NSF and NASA cover sheets; (2) budget sheets in the NSF format; and (3) other documentation required by NSF and NASA. A joint proposal review will be carried out; and successful proposals will be selected to provide a balanced program and to ensure the most effective use of the limited resources available from NASA and NSF. The results of the joint peer review panel will be forwarded to the appropriate NASA and NSF program officials who will coordinate the proposal selections and associated funding levels. At this time we anticipate the following levels of Fiscal Year (FY)1995 funding; $1.0M from NASA and $1.0M from NSF for a combined total of $2.0M. At the present time NASA hopes to continue this data analysis and interpretation program in future years, but funding levels are very uncertain. Consequently, funding may be requested for up to two years, but any second-year funding is subject to availability of funds.

Additional information pertaining to the NSF proposal procedures may be obtained from:

Dr. G. Siegfried Kutter
Division of Astronomical Sciences
National Science Foundation
4201 Wilson Boulevard, Suite 1045
Arlington, VA 22230
Internet: skutter@nsf.gov
Phone: (703) 306-1820
Fax: (703) 306-0525

Dr. Sunanda Basu
Division of Atmospheric Sciences
National Science Foundation
4201 Wilson Boulevard, Suite 775
Arlington, VA 22230
Internet: sbasu@nsf.gov
Phone: (703) 306-1529
Fax: (703) 306-0849

Participation in this program is open to all categories of organizations: both domestic and foreign, industry, educational institutions, other nonprofit organizations, NASA centers, and other Government agencies. Proposals may be submitted at any time during the period ending April 24, 1995. Proposals will be evaluated by joint NSF and NASA peer review panel. Selection is scheduled for May 1995. Appendix A provides technical and program information in the general area in which proposals are sought. Appendix B contains basic guidance for preparation of proposals in response to an NRA. Appendix C contains required and suggested forms. Appendix D contains specific information on the NASA Office of Space Science.

In response to the increased awareness of ecological issues on the parts of both NASA and the scientific community, NASA will conserve paper and reduce waste by providing these appendices through anonymous file-transfer protocol (ftp) from the Internet host: nssdca.gsfc.nasa.gov. The command "ftp nssdca.gsfc.nasa.gov " should be used to access the host machine. The user will then be prompted for a user name (use "anonymous") and for a password (please use your "own host name"). ASCII, Postscript, and Microsoft Word files for this NRA, all Appendices, and all required forms are located in the directory "hq-nras.sl9jdap". A particularly useful file named "Readme" resides in this directory and gives detailed instructions on obtaining electronically the necessary files via ftp. The electronic version of this Announcement will be available via anonymous file transfer on January 24, 1995. Paper copies of this NRA, Appendices, and required forms will be available at the address shown below only if the prospective proposer's institution lacks Internet access to "ftp".

Identifier:	NRA 95-OSS-03
Submit Proposals to:	*via U.S. mail, express or courier:* SL9/J DAP Panel Lunar and Planetary Institute 3600 Bay Area Boulevard Houston, TX 77058 Telephone: (713)-486-2151
Proposals Due:	April 24, 1995
Copies Required:	15 copies of proposal
Selecting Official:	Director, Solar System Exploration Division Office of Space Science
Obtain Appendices Electronically via "anonymous ftp" from:	nssdca.gsfc.nasa.gov
Obtain Additional Information from:	Dr. Edwin S. Barker Code SL Solar System Exploration Division NASA Headquarters Washington, DC 20546-0001 U.S.A. Internet: ebarker@sl.ms.ossa.hq.nasa.gov Telephone: (202) 358-0289

Your interest and cooperation in participating in this opportunity are appreciated.

Wesley T. Huntress, Jr.
Associate Administrator for
Space Science

Enclosure

List of Appendices

Appendices are available electronically via anonymous ftp from nssdca.gsfc.nasa.gov

Appendix A:	Program Description
Appendix B:	Instructions for Responding to NASA Research Announcements
Appendix C:	Required and Recommended Forms
Appendix D:	Supplemental Information on the Office of Space Science

Individuals without ftp access may obtain a copy of the NRA and Appendices through Dr. Ed Barker at the address given on the previous page.

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NASA Research Announcement (NRA)/Announcement of Opportunity (AO) Mailing List Update

If your current address is NOT up-to-date, please fill out this form completely.

This is the update form for the NASA Office of Space Sciences (OSS) NRA/AO mailing list. Please fill out CONTACT INFORMATION completely. Check only those that apply in Institution Type and Discipline. Fold the form, secure with tape, and mail it back to the address on the reverse side. Proper postage must be applied.

Please check which announcements you would like to receive:

- ☐ 1. NASA Research Announcements (basic, non-flight, on-going research)
- ☐ 2. Announcements of Opportunity (specific space flight mission)

Must check one, please include code number from mailing label:

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CONTACT INFORMATION If your address has changed or your mailing label is incorrect, please provide ***COMPLETE*** contact information.

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(check only those that apply)

- ☐ 1. College or University
- ☐ 2. Minority College or University
- ☐ 3. Foreign Addressee
- ☐ 4. Minority Business
- ☐ 5. NASA HQs/Center
- ☐ 6. Nonprofit Corporation
- ☐ 7. Other Government Agency
- ☐ 8. Private Industry
- ☐ 9. Small Business

Societies:

- ☐ A. American Astronomical Society
- ☐ B. American Geophysical Union
- ☐ C. Others _____

Discipline:

(check only those that apply)

1. Astronomy and Astrophysics

- ☐ A. Theory and Modeling
- ☐ B. Instrumentation (Technology Dev)
- ☐ C. Laboratory Astrophysics
- ☐ D. Data Analysis (Archival)
- ☐ E. Observational Programs

2. Solar System Exploration

- ☐ A. Planetary Atmospheres and Astronomy
- ☐ B. Planetary Materials and Geochemistry
- ☐ C. Planetary Geology and Geophysics
- ☐ D. Instrument Development
- ☐ E. Origins of Solar Systems
- ☐ F. Exobiology

3. Space Physics

- ☐ A. Cosmic and Heliosphere Physics
- ☐ B. Solar Physics
- ☐ C. Magnetospheric Physics
- ☐ D. Iono-Thermo-Mesospheric Physics

4. Information Systems/Computer Science

- ☐ A. High Performance Computing and Networking
- ☐ B. Scientific Data Analysis and Visualization
- ☐ C. Science Data Storage and Management
- ☐ D. Software Technology

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